

ABSTRACT OF THE DISCLOSURE

1 A system for managing data transmission from a number of  
2 queues employs a regular credit count and a history credit count  
3 for each queue. Generally, the regular credit count is used in  
4 arbitration. The count is decreased when data is transmitted from  
5 the queue and increased at given intervals if the queue is facing  
6 no transmission-blocking backpressure. The history credit count  
7 is increased in lieu of the regular credit count when transmission  
8 from the queue is blocked. Thus, the history credit count keeps  
9 track of potential transmission opportunities that would be lost  
10 due to the blocking of transmission from the queue. The history  
11 credit counts are periodically polled instead of the regular  
12 credit counts to give each queue an opportunity to catch up in its  
13 use of transmission opportunities.

261208-1